

**Claims**

1. Coated base paper, characterized in that it comprises cellulose fibres based pigment-coated paper having 1 to 5 barrier layers, which barrier layer 5 comprises a barrier chemical selected from the group comprising polyvinyl alcohol, acrylate-based barrier latexes and their mixtures.
2. Base paper according to claim 1, characterized in that the number of barrier layers is one.
- 10 3. Base paper according to claim 1 or 2, characterized in that the amount of barrier chemical in the base paper is 0.5 to 3 weight-%.
4. Base paper according to any one of claims 1 to 3, characterized in that the 15 barrier chemical is polyvinyl alcohol having a short chain.
5. Base paper according to any one of claims 1 to 4, characterized in that the pigment-coated paper is primarily pigment-coated fine paper based on chemical pulp.
- 20 6. A method for the manufacture of coated base paper, characterized in that onto a pigment-coated paper based on cellulose fibres 1-5 barrier layers are applied by using a method not contacting the web, which barrier layer comprises a barrier chemical as an aqueous solution, selected from the group 25 comprising polyvinyl alcohol, acrylate-based barrier latexes or their mixtures.
7. A method according to claim 6, characterized in that one barrier layer is applied.
- 30 8. A method according to claim 6 or 7, characterized in that the method not contacting the web is a curtain coating method or spray method.

9. A method according to any of claims 6 to 8, **characterized** in that barrier chemical is applied as an aqueous solution having a concentration of 3 to 50 weight-%.

5 10. A method according to claim 9, **characterized** in that barrier chemical is applied as an aqueous solution having a concentration of 3 to 25 weight-%, and that the solution being applied has a viscosity of at most 100 cP.

10 11. A method according to claim 10, **characterized** in that barrier chemical is applied as an aqueous solution having a concentration of 3 to 5 weight-%, and that the solution being applied has a viscosity of at most 50 cP.

12. A method according to any of claims 6 to 11, **characterized** in that the application of the barrier layer is carried out as on-line coating.

15 13. A method according to any of claims 6 to 12, **characterized** in that after the application of the barrier layer, drying is carried out using a non-contacting drying technique.

20 14. The use of base paper according to any of claims 1 to 5, or of base paper manufactured by a method according to any of claims 6 to 13, as base paper for labels and release paper.